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Brook, NY 11790 (US). GROLLMAN, Arthur [US/US];
14 Childs Lane, Setauket, NY 11733 (US).

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(74) Agent: WHITE, John, P.; Cooper & Dunham LLP, 1185
Avenue of the Americas, New York, NY 10036 (US).

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(71) Applicants (for all designated States except US): THE
TRUSTEES OF COLUMBIA UNIVERSITY IN THE
CITY OF NEW YORK [US/US]; West 116th Street and
Broadway, New York, NY 10027 (US). THE RESEARCH
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(72) Inventors; and

(75) Inventors/Applicants (for US only): BRINK, Peter, R.
[US/US]; 101 Dyke Road, Setauket, NY 11733 (US).
ROSEN, Michael, R. [US/US]; 25 East 86th Street,
New York, NY 10028 (US). ROBINSON, Richard, B.
[US/US]; 67 Roosevelt Street, Cresskill, NJ 07626 (US).
COHEN, Ira, S. [US/US]; 23 Hawks Nest Road, Stony

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(54) Title: DELIVERY OF DNA OR RNA VIA GAP JUNCTIONS FROM HOST CELLS TO TARGET CELLS AND A CELL-
BASED DELIVERY SYSTEM FOR ANTISENSE OR siRNA

(57) Abstract: A method of delivering an oligonucleotide or a plasmid expressing an oligonucleotide into a target cell comprises
introducing an oligonucleotide into a donor cell, particularly a stem cell, and contacting the target cell with the donor cell under
conditions permitting the donor cell to form a gap junction with the target cell, whereby the oligonucleotide or a product of the
oligonucleotide is delivered into the target cell from the donor cell.

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